

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP 02/03829A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/495

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	EP 1 191 589 A (NIPPON ELECTRIC CO) 27 March 2002 (2002-03-27) the whole document	1, 3, 5, 7, 15, 16, 18
X	US 6 040 626 A (CHEAH CHUAN ET AL) 21 March 2000 (2000-03-21) cited in the application column 3, line 47 -column 5, line 51; figures 4, 5, 7, 8	1, 3, 18
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 492 (E-1278), 12 October 1992 (1992-10-12) -& JP 04 180640 A (NEC YAMAGATA LTD), 26 June 1992 (1992-06-26) the whole document	1-4, 18-20
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

30 January 2003

Date of mailing of the international search report

07/02/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	✓ PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14, 31 December 1998 (1998-12-31) -& JP 10 261756 A (HITACHI LTD; HITACHI TOBU SEMICONDUCTOR LTD), 29 September 1998 (1998-09-29) abstract; figure 7 ---	1, 3, 5, 7, 15, 16, 18
X	✓ US 5 218 231 A (KUDO YOSHIMASA) 8 June 1993 (1993-06-08) the whole document ---	1, 15, 16, 18
A	✓ WO 01 15216 A (HIRASHIMA TOSHINORI ; TAKAHASHI YASUSHI (JP); HITACHI LTD (JP); KAJ) 1 March 2001 (2001-03-01) the whole document ---	1, 15, 16, 18
A	✓ US 5 977 630 A (PEARSON GEORGE ET AL) 2 November 1999 (1999-11-02) the whole document -----	1, 15, 16, 18

INTERNATIONAL SEARCH REPORT
Information on patent family members

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